

10/672,282

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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
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FILE 'PROUSDDR' ENTERED AT 06:27:45 ON 12 AUG 2006
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FILE 'PS' ENTERED AT 06:27:45 ON 12 AUG 2006
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CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> s (ferric or ferrous)(2a) reductase))(3a) (nucleic or DNA or polynucleotide or nucleotide or gene or sequence or vector)
UNMATCHED RIGHT PARENTHESIS 'REDUCTASE))'
The number of right parentheses in a query must be equal to the number of left parentheses.

=> s (ferric or ferrous)(2a) reductase)(3a) (nucleic or DNA or polynucleotide or nucleotide or gene or sequence or vector)
UNMATCHED RIGHT PARENTHESIS 'REDUCTASE)(3A'
The number of right parentheses in a query must be equal to the number of left parentheses.

=> s (ferric or ferrous)(2a) reductase(3a) (nucleic or DNA or polynucleotide or nucleotide or gene or sequence or vector)
1 FILES SEARCHED...
6 FILES SEARCHED...
10 FILES SEARCHED...
18 FILES SEARCHED...
30 FILES SEARCHED...
31 FILES SEARCHED...
41 FILES SEARCHED...
L1 184 (FERRIC OR FERROUS)(2A) REDUCTASE(3A) (NUCLEIC OR DNA OR POLYNUCLEOTIDE OR NUCLEOTIDE OR GENE OR SEQUENCE OR VECTOR)

=> s l1 and arabidopsis
42 FILES SEARCHED...
L2 49 L1 AND ARABIDOPSIS

=> s l2 and (metal or pollutant or contaminant or pollution or remediation or phytoremediation or cleanup)
12 FILES SEARCHED...
27 FILES SEARCHED...
43 FILES SEARCHED...
L3 26 L2 AND (METAL OR POLLUTANT OR CONTAMINANT OR POLLUTION OR REMEDIATION OR PHYTOREMEDIATION OR CLEANUP)

=> remov dup l3
DUP IS NOT VALID HERE
The DELETE command is used to remove various items stored by the system.

To delete a saved query, saved answer set, saved L-number list, SDI request, batch request, mailing list, or user-defined cluster, format, or search field, enter the name. The name may include ? for left, right, or simultaneous left and right truncation.

Examples:

DELETE BIO?/Q	- delete query names starting with BIO
DELETE ?DRUG/A	- delete answer set names ending with DRUG
DELETE ?ELEC?/L	- delete L-number lists containing ELEC
DELETE ANTICOAG/S	- delete SDI request
DELETE ENZYME/B	- delete batch request
DELETE .MYCLUSTER	- delete user-defined cluster
DELETE .MYFORMAT	- delete user-defined display format
DELETE .MYFIELD	- delete user-defined search field
DELETE NAMELIST MYLIST	- delete mailing list

To delete an ordered document or an offline print, enter its number.

Examples:

DELETE P123001C	- delete print request
DELETE D134002C	- delete document order request

To delete an individual L-number or range of L-numbers, enter the L-number or L-number range. You may also enter DELETE LAST followed by a number, n, to delete the last n L-numbers. RENUMBER or NORENUMBER may also be explicitly specified to override the value of SET RENUMBER.

Examples:

DELETE L21	- delete a single L-number
DELETE L3-L6	- delete a range of L-numbers
DELETE LAST 4	- delete the last 4 L-numbers
DELETE L33-	- delete L33 and any higher L-number
DELETE -L55	- delete L55 and any lower L-number
DELETE L2-L6 RENUMBER	- delete a range of L-numbers and renumber remaining L-numbers
DELETE RENUMBER	- renumber L-numbers after deletion of intermediate L-numbers

Entire sets of saved items, SDI requests, batch requests, user-defined items, or E-numbers can be deleted.

Examples:

DELETE SAVED/Q	- delete all saved queries
DELETE SAVED/A	- delete all saved answer sets
DELETE SAVED/L	- delete all saved L-number lists
DELETE SAVED	- delete all saved queries, answer sets, and L-number lists
DELETE SAVED/S	- delete all SDI requests
DELETE SAVED/B	- delete all batch requests
DELETE CLUSTER	- delete all user-defined clusters
DELETE FORMAT	- delete all user-defined display formats
DELETE FIELD	- delete all user-defined search fields
DELETE SELECT	- delete all E-numbers
DELETE HISTORY	- delete all L-numbers and restart the session at L1

To delete an entire multifile SDI request, enter DELETE and the name of the request. To delete a component from the multifile SDI, enter DELETE and the name of the component.

=> dup remov l3

DUPLICATE IS NOT AVAILABLE IN 'CAOLD, DGENE, DPCI, IMSPATENTS, LITALERT,

PATDPASPC, PCTGEN, PROUSDDR, PS, RDISCLOSURE, SYNTHLINE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L3
L4 23 DUP REMOV L3 (3 DUPLICATES REMOVED)

=> d 14 1-23 ab

L4 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1

AB The Arabidopsis FRO2 gene encodes the iron deficiency-inducible ferric chelate reductase responsible for reduction of iron at the root surface; subsequent transport of iron across the plasma membrane is carried out by a ferrous iron transporter (IRT1). Genome annotation has identified seven addnl. FRO family members in the Arabidopsis genome. We used real-time RT-PCR to examine the expression of each FRO gene in different tissues and in response to iron and copper limitation. FRO2 and FRO5 are primarily expressed in roots while FRO8 is primarily expressed in shoots. FRO6 and FRO7 show high expression in all the green parts of the plant. FRO3 is expressed at high levels in roots and shoots, and expression of FRO3 is elevated in roots and shoots of iron-deficient plants. Interestingly, when plants are Cu-limited, the expression of FRO6 in shoot tissues is reduced. Expression of FRO3 is induced in roots and shoots by Cu-limitation. While it is known that FRO2 is expressed at high levels in the outer layers of iron-deficient roots, histochem. staining of FRO3-GUS plants revealed that FRO3 is predominantly expressed in the vascular cylinder of roots. Together our results suggest that FRO family members function in metal ion homeostasis in a variety of locations in the plant.

L4 ANSWER 2 OF 23 USPATFULL on STN

AB Novel molecules of the multi-drug and toxin efflux (MATE) family of molecules, designated herein as mutant ferric reductase defective (FRD3) nucleic acid and protein molecules are disclosed. The FRD3 nucleic acid and protein molecules are useful as modulating agents in regulating metal homeostasis, e.g., iron homeostasis. The invention further describes transgenic plants in which expression of a FRD3 polypeptide of the invention is altered. Compositions containing FRD3 molecules and methods of using such molecules are also provided.

L4 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2

AB The present invention provides protein and DNA sequences of a novel protein FRD3 (ferric reductase defective), a member of multi-drug and toxin flux (MATE) family, and its uses thereof. The FRD3 nucleic acid and protein mols. are useful as modulating agents in regulating metal homeostasis, e.g., iron homeostasis. The invention further describes transgenic plants in which expression of a FRD3 polypeptides of the invention is altered. Compns. containing FRD3 mols. and methods of using such mols. are also provided.

L4 ANSWER 4 OF 23 USPATFULL on STN

AB The present invention relates to the terminal sequencing of random genomic fragments performed with the filamentous fungus *A.gossypii*, to the sequences obtained therewith and the use of the sequences for forensic identification, to characterize genes and gene organization of this ascomycete by inter-genomic comparison, to identify biosynthetic genes that can be used as selection markers, to isolate promoters and terminators for application in a homologous as well as heterologous context, to find putative centromere containing clones, chromosome mapping, chromosome identifying, general information about chromosome organization and in addition to identify ORF containing SRS sequences with no homology to *S. cerevisiae* or any other organism which allows the identification of *A. gossypii* specific genes.

L4 ANSWER 5 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN

AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. Note: Nothing further is mentioned about the present sequence in the specification.

L4 ANSWER 6 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN

AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. Note: Nothing further is mentioned about the present sequence in the specification.

L4 ANSWER 7 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN

AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. Note: Nothing further is mentioned about the present sequence in the specification.

L4 ANSWER 8 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN

AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. Note: Nothing further is mentioned about the present sequence in the specification.

L4 ANSWER 9 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN

AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. Note: Nothing further is mentioned about the present sequence in the specification.

L4 ANSWER 10 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN

AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. Note: Nothing further is mentioned about the present sequence in the specification.

L4 ANSWER 11 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AB The present invention provides the protein and coding sequences of the A. thaliana multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (frd3). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. Note: Nothing further is mentioned about the present sequence in the specification.

L4 ANSWER 12 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AB The present invention provides the protein and coding sequences of the A. thaliana multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (frd3). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. Note: Nothing further is mentioned about the present sequence in the specification.

L4 ANSWER 13 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AB The present invention provides the protein and coding sequences of the A. thaliana multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (frd3). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the A. thaliana frd3 wild-type protein.

L4 ANSWER 14 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AB The present invention provides the protein and coding sequences of the A. thaliana multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (frd3). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the A. thaliana frd3-3 protein.

L4 ANSWER 15 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AB The present invention provides the protein and coding sequences of the A. thaliana multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (frd3). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the A. thaliana frd3-2 protein.

L4 ANSWER 16 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AB The present invention provides the protein and coding sequences of the A. thaliana multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (frd3). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the A. thaliana frd3-1 protein.

L4 ANSWER 17 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN

AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the *A. thaliana frd3* coding sequence.

L4 ANSWER 18 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the *A. thaliana frd3-3* coding sequence.

L4 ANSWER 19 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the *A. thaliana frd3-3* gene.

L4 ANSWER 20 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the *A. thaliana frd3-2* coding sequence.

L4 ANSWER 21 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the *A. thaliana frd3-2* gene.

L4 ANSWER 22 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the *A. thaliana frd3-1* coding sequence.

L4 ANSWER 23 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
AB The present invention provides the protein and coding sequences of the *A. thaliana* multi-drug and toxin efflux family. The molecules are designated mutant ferric reductase defective (*frd3*). They can be used in the regulation of metal uptake in transgenic plants. The transgenic

plant is useful for removing a metal pollutant from the soil, comprising contacting the transgenic plant with the soil. The pollutant is a metal consisting of Pb, Co, Cd, Hg, Zn or Cu. The present sequence is the *A. thaliana* frd3-1 gene.

=> d 14 1-23

L4 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
AN 2006:429972 CAPLUS
TI Expression profiling of the Arabidopsis ferric chelate reductase (FRO) gene family reveals differential regulation by iron and copper
AU Mukherjee, Indrani; Campbell, Nathan H.; Ash, Joshua S.; Connolly, Erin L.
CS Department of Biological Sciences, Coker Life Sciences, University of South Carolina, Columbia, SC, 29208, USA
SO Planta (2006), 223(6), 1178-1190
CODEN: PLANAB; ISSN: 0032-0935
PB Springer
DT Journal
LA English
RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 23 USPATFULL on STN
AN 2004:198747 USPATFULL
TI Novel molecules of the multi-drug and toxin efflux (MATE) protein family and uses thereof
IN Guerinot, Mary Lou, Etna, NH, UNITED STATES
Rogers, Elizabeth E., Columbia, MO, UNITED STATES
PI US 2004154056 A1 20040805
AI US 2003-672282 A1 20030925 (10)
RLI Continuation of Ser. No. WO 2002-US9962, filed on 27 Mar 2002, PENDING
PRAI US 2001-280621P 20010330 (60)
DT Utility
FS APPLICATION
LN.CNT 4359
INCL INCLM: 800/288.000
INCLS: 435/069.100; 435/320.100; 435/419.000; 530/370.000; 536/023.600; 530/388.100
NCL NCLM: 800/288.000
NCLS: 435/069.100; 435/320.100; 435/419.000; 530/370.000; 530/388.100; 536/023.600
IC [7]
ICM A01H001-00
ICS C12N015-82; C07H021-04; C07K014-415
IPCI A01H0001-00 [ICM,7]; C12N0015-82 [ICS,7]; C07H0021-04 [ICS,7]; C07H0021-00 [ICS,7,C*]; C07K0014-415 [ICS,7]
IPCR C07K0014-415 [I,A]; C07K0014-415 [I,C*]; C12N0015-82 [I,A]; C12N0015-82 [I,C*]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2
AN 2002:778268 CAPLUS
DN 137:289949
TI Protein and DNA sequences of Arabidopsis thaliana FRD3, a member of multi-drug and toxin efflux (MATE) protein family, and uses for modulating metal homeostasis
IN Guerinot, Mary Lou; Rogers, Elizabeth
PA Trustees of Dartmouth College, USA
SO PCT Int. Appl., 127 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002079756	A2	20021010	WO 2002-US9962	20020327
	WO 2002079756	C2	20021121		
	WO 2002079756	A3	20030522		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2004154056	A1	20040805	US 2003-672282	20030925
PRAI	US 2001-280621P	P	20010330		
	WO 2002-US9962	A1	20020327		

L4 ANSWER 4 OF 23 USPATFULL on STN

AN 2001:79288 USPATFULL

TI Genomic DNA sequences of ashbya gossypii and uses thereof

IN Philippsen, Peter, Riehen, Switzerland

Pohlmann, Rainer, Lorrach, Germany, Federal Republic of

Steiner-Lange, Sabine, Bonn, Germany, Federal Republic of

Mohr, Christine, Allschwil, Switzerland

Wendland, Jurgen, Lorrach, Germany, Federal Republic of

Knechtle, Philipp, Oberwil, Switzerland

Rebischung, Corinne, Saint-Louis, France

PA Syngenta Participations AG, Basel, Switzerland (non-U.S. corporation)

PI US 6239264 B1 20010529

AI US 1997-998416 19971224 (8)

DT Utility

FS Granted

LN.CNT 4269

INCL INCLM: 536/023.100

INCLS: 435/320.100; 536/024.300; 536/024.320

NCL NCLM: 536/023.100

NCLS: 435/320.100; 536/024.300; 536/024.320

IC [7]

ICM C07H021-04

ICS C12N015-11; C12N015-63

IPCI C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C*]; C12N0015-11 [ICS,7];

C12N0015-63 [ICS,7]

IPCR C12N0009-04 [I,A]; C12N0009-04 [I,C*]; C12N0009-10 [I,A];

C12N0009-10 [I,C*]; C12N0009-88 [I,A]; C12N0009-88 [I,C*];

C12P0025-00 [I,A]; C12P0025-00 [I,C*]

EXF 435/6; 435/440; 435/471; 435/490; 435/320.1; 536/23.1; 536/24.3;

536/24.32

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN

AN ABP59525 Protein DGENE

TI New mutant ferric reductase defective (FRD3)
nucleic acid and polypeptide, useful for treating iron or zinc
deficiency -

IN Guerinot M L; Rogers E

PA (DART-N) DARTMOUTH COLLEGE.

PI WO 2002079756 A2 20021010 127

AI WO 2002-US9962 20020327

PRAI US 2001-280621P 20010330

DT Patent

LA English

OS 2003-092903 [08]
DESC Frd3 protein identification related A thaliana protein #8.

L4 ANSWER 6 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
AN ABP59524 Protein DGENE
TI New mutant ferric reductase defective (FRD3)
nucleic acid and polypeptide, useful for treating iron or zinc
deficiency -
IN Guerinot M L; Rogers E
PA (DART-N) DARTMOUTH COLLEGE.
PI WO 2002079756 A2 20021010 127
AI WO 2002-US9962 20020327
PRAI US 2001-280621P 20010330
DT Patent
LA English
OS 2003-092903 [08]
DESC Frd3 protein identification related A thaliana protein #7.

L4 ANSWER 7 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
AN ABP59523 Protein DGENE
TI New mutant ferric reductase defective (FRD3)
nucleic acid and polypeptide, useful for treating iron or zinc
deficiency -
IN Guerinot M L; Rogers E
PA (DART-N) DARTMOUTH COLLEGE.
PI WO 2002079756 A2 20021010 127
AI WO 2002-US9962 20020327
PRAI US 2001-280621P 20010330
DT Patent
LA English
OS 2003-092903 [08]
DESC Frd3 protein identification related A thaliana protein #6.

L4 ANSWER 8 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
AN ABP59522 Protein DGENE
TI New mutant ferric reductase defective (FRD3)
nucleic acid and polypeptide, useful for treating iron or zinc
deficiency -
IN Guerinot M L; Rogers E
PA (DART-N) DARTMOUTH COLLEGE.
PI WO 2002079756 A2 20021010 127
AI WO 2002-US9962 20020327
PRAI US 2001-280621P 20010330
DT Patent
LA English
OS 2003-092903 [08]
DESC Frd3 protein identification related A thaliana protein #5.

L4 ANSWER 9 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
AN ABP59521 Protein DGENE
TI New mutant ferric reductase defective (FRD3)
nucleic acid and polypeptide, useful for treating iron or zinc
deficiency -
IN Guerinot M L; Rogers E
PA (DART-N) DARTMOUTH COLLEGE.
PI WO 2002079756 A2 20021010 127
AI WO 2002-US9962 20020327
PRAI US 2001-280621P 20010330
DT Patent
LA English
OS 2003-092903 [08]
DESC Frd3 protein identification related A thaliana protein #4.

L4 ANSWER 10 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN

AN ABP59520 Protein DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -
 IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 DESC Frd3 protein identification related A thaliana protein #3.

L4 ANSWER 11 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABP59519 Protein DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -
 IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 DESC Frd3 protein identification related A thaliana protein #2.

L4 ANSWER 12 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABP59518 Protein DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -
 IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 DESC Frd3 protein identification related A thaliana protein #1.

L4 ANSWER 13 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABP59516 Protein DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -
 IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 DESC A thaliana multi-drug and efflux toxin frd3 wild-type protein.

L4 ANSWER 14 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABP59515 Protein DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -

IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 CR N-PSDB: ABZ20616; ABZ20617
 DESC A thaliana multi-drug and efflux toxin frd3-3 protein.

L4 ANSWER 15 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABP59514 Protein DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -

IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 CR N-PSDB: ABZ20614; ABZ20615
 DESC A thaliana multi-drug and efflux toxin frd3-2 protein.

L4 ANSWER 16 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABP59513 Protein DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -

IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 CR N-PSDB: ABZ20612; ABZ20613
 DESC A thaliana multi-drug and efflux toxin frd3-1.

L4 ANSWER 17 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABZ20618 cDNA DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -

IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 DESC A thaliana multi-drug and efflux toxin frd3 coding sequence.

L4 ANSWER 18 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABZ20617 cDNA DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -

IN Guerinot M L; Rogers E

PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 CR P-PSDB: ABP59515
 DESC A thaliana multi-drug and efflux toxin frd3-3 coding sequence.

L4 ANSWER 19 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABZ20616 DNA DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -
 IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 CR P-PSDB: ABP59515
 DESC A thaliana multi-drug and efflux toxin frd3-3 gene.

L4 ANSWER 20 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABZ20615 cDNA DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -
 IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 CR P-PSDB: ABP59514
 DESC A thaliana multi-drug and efflux toxin frd3-2 coding sequence.

L4 ANSWER 21 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABZ20614 DNA DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -
 IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 CR P-PSDB: ABP59514
 DESC A thaliana multi-drug and efflux toxin frd3-2 gene.

L4 ANSWER 22 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABZ20613 cDNA DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -
 IN Guerinot M L; Rogers E

PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 CR P-PSDB: ABP59513
 DESC A thaliana multi-drug and efflux toxin frd3-1 coding sequence.

L4 ANSWER 23 OF 23 DGENE COPYRIGHT 2006 The Thomson Corp on STN
 AN ABZ20612 DNA DGENE
 TI New mutant ferric reductase defective (FRD3)
 nucleic acid and polypeptide, useful for treating iron or zinc
 deficiency -
 IN Guerinot M L; Rogers E
 PA (DART-N) DARTMOUTH COLLEGE.
 PI WO 2002079756 A2 20021010 127
 AI WO 2002-US9962 20020327
 PRAI US 2001-280621P 20010330
 DT Patent
 LA English
 OS 2003-092903 [08]
 CR P-PSDB: ABP59513
 DESC A thaliana multi-drug and efflux toxin frd3-1 gene.

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L4 ANSWER 4 OF 23 USPATFULL on STN
 DETD . . . MCM2 member of the Mcm2p,Mcm3p,Cdc46p family 2
 PAG1055UP YDR065w hypothetical protein 3
 open frame 350nt in +3 and -2
 PAG1056RP YBR290w BSD2 metal homeostasis protein and
 probable 1
 metal ion transporter
 PAG1056UP YNL228w questionable ORF 4
 PAG1057RP YDR143c SAN1 protein that may antagonize the function
 of 2
 Cdc68p (general chromatin factor). . .
 DETD . . . YFL008w SMC1 chromosome segregation protein 1
 Promotor (CAI S.c. 0.16)
 PAG1228UP YAL017w FUN31 probable serine/threonine protein kinase
 1
 PAG1230RP YNL317w similarity to Arabidopsis thaliana
 PRL1 1 protein
 PAG1230UP YOL138c hypothetical protein 1
 PAG1231RP YMR176w hypothetical protein 3
 open frame > 350 nt in -1
 PAG1231UP YPL027w. . .
 DETD . . . to
 box family required for splicing of group II
 SLY1
 introns of COX1 and COB
 PAG1427RP YLR214W FRE1 ferric (and cupric) reductase, acts
 on ferric 1 syntenie; two genes with RP-
 iron chelates external to the cell
 SRS
 YLR215c unknown function 1
 syntenie
 PAG1427UP YDL143w CCT4 Component of chaperonin containing. . .

=> d his

(FILE 'HOME' ENTERED AT 06:24:56 ON 12 AUG 2006)

FILE 'CAPLUS, BIOSIS, CABA, MEDLINE, AGRICOLA, WPIX, CAOLD, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT, EPFULL, FRANCEPAT, FRFULL, FSTA, GBFULL, IFIPAT, IMSPATENTS, INPADOC, JAPIO, KOREAPAT, LITALERT, NTIS, PAPERCHEM2, PATDD, PATDPA, PATDPAFULL, PATDPASPC, ...' ENTERED AT 06:27:45 ON 12 AUG 2006

L1	184 S (FERRIC OR FERROUS) (2A) REDUCTASE(3A) (NUCLEIC OR DNA OR POLY
L2	49 S L1 AND ARABIDOPSIS
L3	26 S L2 AND (METAL OR POLLUTANT OR CONTAMINANT OR POLLUTION OR RE
L4	23 DUP REMOV L3 (3 DUPLICATES REMOVED)